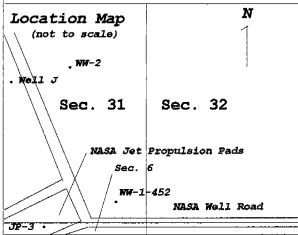
WSTF We.. Borehole Lithologic/Geop. sysical log



Location Description

Quarter 1: NW 1/4 Section: 6

Quarter 2: NE 1/4 Township: 21 S

Quarter 3: NE 1/4 Range: 3 E

Site I.D: NASA-WSTF

Location I.D: JP-3

County and State: Dona Ana County, New Mexico

Site Coordinates: N-227464.71 E-396409.23

Ground Elevation: 4433.54'
Total Depth of Borehole: 1,020'

Depth to Bedrock and Type: Not intercepted.

Depth to Groundwater from Geophysics: 433'

Drilling Method(s): Mud Rotary, reamed 17.5" to 105'; set 14" OD surface casing to 103'. Drilled 12.25" to 1,020'.

Drilling Contractor: Stewart Brothers Drilling Co.

Geophysical Survey Contractor: Southwest Geophysical, Inc.

ATSC Field Representative(s): G. Giles, L. Hunnicutt and M. McClure.

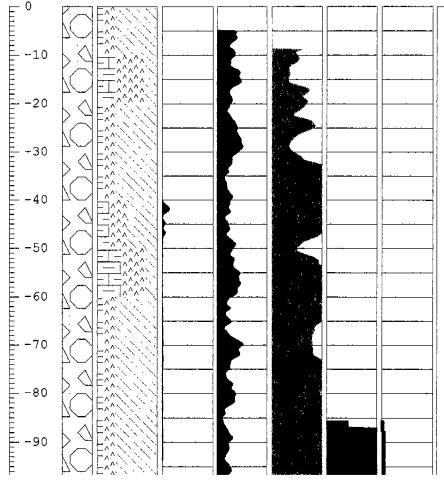
Dates Drilling Started and Completed: 1/23/99 to 2/21/99.

Comments: Retrofit Westbay well inside 4.5" OD stainless steel casing with four sampling zones. Lithologic samples

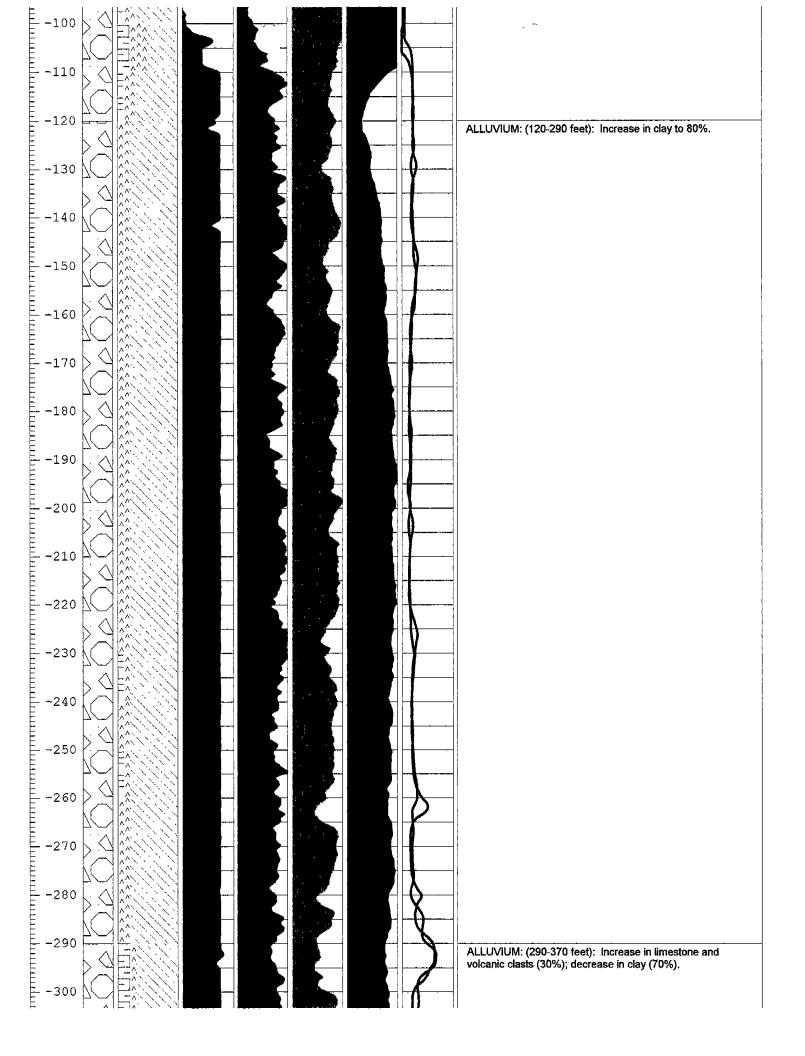
collected every 10'.

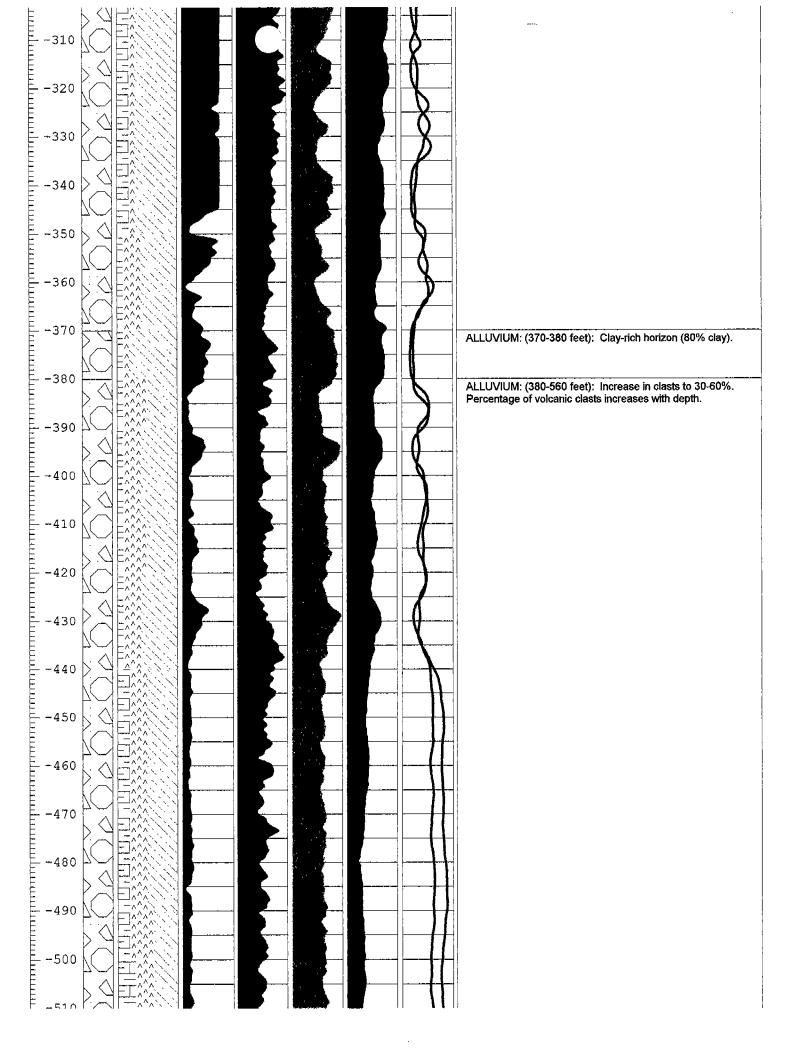
Location Description: $\mbox{\it JP-3}$ is located approximately 4 miles west of the 100 Area.

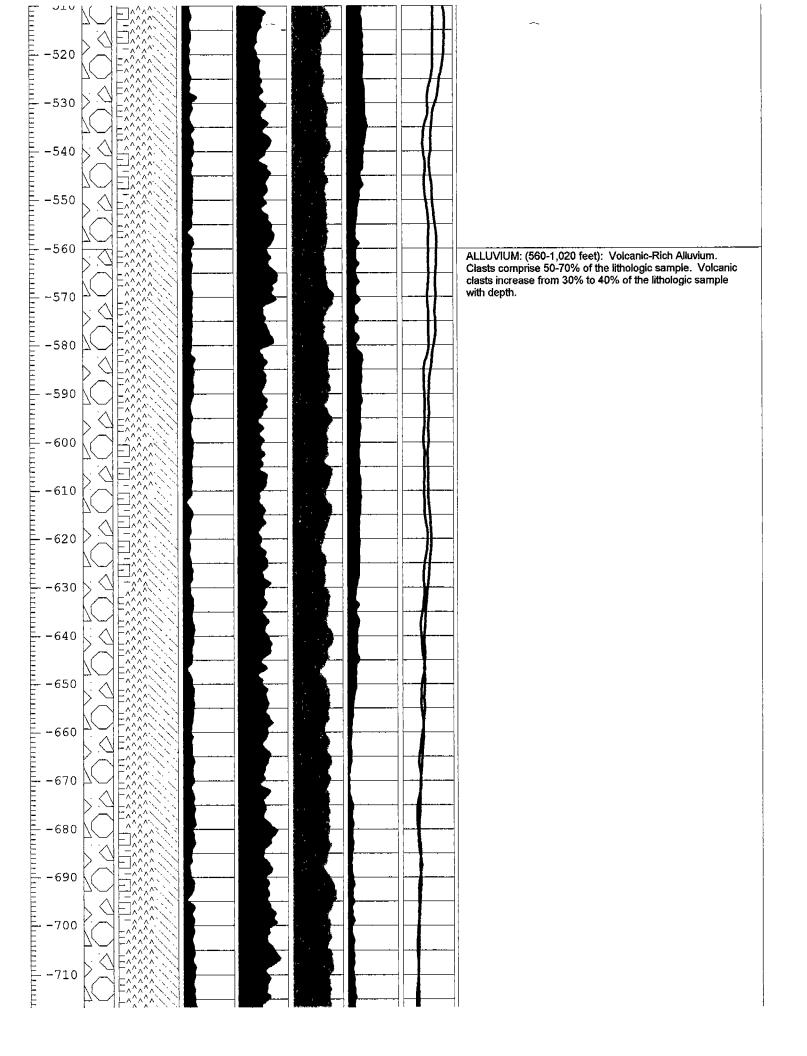
Depth	Lith- ology		ual cent		Sonic Gar Porosity		lamma Neutro		tron	SP		Resis- tivity		Lithologic Description
Feet)				(Msec./ ft.)		API		API		(Mili- volts)		(OHM~M) 64"-green 16"-red		
		o	100	o	150	50	200	o	50	-15	20	0	100	



ALLUVIUM: Santa Fe Group (0-1,020 feet): The Santa Fe Group Alluvium is a poorly to moderately sorted polygenetic pebble conglomerate that consists predominantly of limestone and igneous clasts eroded from the nearby San Andres Mountains, Clasts generally comprise 30-60% of the lithologic samples. The following clast types were observed within the Santa Fe Alluvium: 1) 0-40% limestone clasts that are light gray (N6) to dark gray (N3), micritic, rounded to subangular, and display abundant hairline calcite-filled fractures, 2) 10-50% igneous clasts (both intrusive and extrusive) including moderate reddish brown (10R 4/6) to grayish red (5R 4/2) rhyolite, very light gray (N8) andesite to andesite porphyry, grayish orange (10YR 7/4) to very pale orange (10YR 8/2) rhyolite porphyry, moderate pink (5R 7/4) to grayish orange pink (10R 8/2) granite, grayish red (10R 4/2) to dark reddish brown (10R 3/4) quartzite and very light gray (N8) to medium light gray (N6) vitric lithic tuff, and 3) 20-80% dark reddish brown siltstone and clay. Siltstone and clay layers may be the result of in situ breakdown of volcanic clasts or may represent the muddy distal fan portion of alluvial fans. Note: the percent of volcanic clasts increases with depth.







E -720	F^^^^^			
-720 -730				
E 1				
-740 -750 -750 -760 -770 -780 -790 -800 -810 -820				
-760				
-770				
780				
-790				
790				
-800				
-810				
-820				
-840				ALLUVIUM: (840-870 feet): Interval contains nodular clay. Clay increases to 50% of the sample.
850				
-860				
-870				ALLUVIUM: (870-890 feet): Clast-rich interval with 40% sedimentary and 30% volcanic clasts.
-880				
-890				ALLUVIUM: (890-1,020 feet): Clasts comprise 50% of the lithologic sample, volcanic clasts predominant.
-840 -850 -860 -870 -870 -890 -990				
-910				
-920				

